#### INTERNATIONAL SEARCH REPORT

ational Application No

IPC 7	F04D29/46			
According	to International Patent Classification (IPC) or to both national cla	ssification and IPC		
B. FIELDS	SEARCHED			
IPC 7	documentation searched (classification system followed by class F04D F02C F02B F01D	ification symbols)		
	ation searched other than minimum documentation to the extent			
1	data base consulted during the international search (name of da ata, PAJ, EPO-Internal	ta base and, where practical search terms used		
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT			
Category •	Citation of document, with indication, where appropriate, of ti	he relevant passages	Relevant to dalm No.	
x x	EP 0 099 847 A (CARRIER CORP) 1 February 1984 (1984-02-01) page 6, line 23 -page 9, line	5; figure 1	1,6-9, 14-16 17,18,	
А	page 11, line 13 - line 28; fi	gure 2	20-24 19	
A	US 3 362 624 A (ENDRESS JAMES 9 January 1968 (1968-01-09) column 3, line 5 - line 35; fi	,	1,9,17	
А	US 3 365 120 A (KURT JASSNIKER 23 January 1968 (1968-01-23)		1,5,9, 13,17, 18,20	
	column 2, line 4 - line 60; fi	gure 1		
Fur	ther documents are listed in the continuation of box C.	Patent family members are listed in	annex.	
• Special ca	eategories of cited documents:	'T' later document published after the inter or priority date and not in conflict with t	national filing date	
consi	idered to be of particular relevance document but published on or after the international	cited to understand the principle or the invention  "X" document of particular relevance; the ci- cannot be considered novel or cannot	ory underlying the atmed invention	
which citatio	nent which may throw doubts on priority claim(s) or is cited to establish the publication clate of another can or other special reason (as specified) rent referring to an oral disclosure, use, exhibition or	Involve an inventive step when the doc "Y" document of particular relevance; the cl cannot be considered to involve an invent document is combined with one or mo	tument is taken alone almed invention entive step when the	
other	means then published prior to the international filing date but than the priority date claimed	ments, such combination being obvious in the art.  *&* document member of the same patent for	s to a person skilled	
Date of the	actual completion of the International search	Date of mailing of the International sear		
2	29 June 2004	06/07/2004	-	
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  MI 2280 HV Riiswilk	Authorized officer		
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 91 651 epo nl, F2x (+31-70) 340-3016		D1 Giorgio, F		

Form PCT//SA/210 (second sheet) (Jaruary 2004)

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

. I sational Application No	
PCT/GB 03/04903	

Patent document cited in search report		Publication date		Patent family member(s) -	Publication date
EP 0099847	A	01-02-1984	US	4460310 A	17-07-1984
			ΑU	548325 B2	05-12-1985
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			DE	3368095 D1	15-01-1987
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			IN	158399 A1	08-11-1986
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US 3365120	A	23-01-1968	CH	413201 A	15-05-1966
			FR	1429138 A	18-02-1966
			GB	1106107 A	13-03-1968
			NL	126489 C	
			NL	6406513 A	12-11-1969

Form PCT/ISA/210 (patent family annex) (Lanuary 2004)

From the INTERNATIONAL SEARCHING AUTHORITY	<b>D</b> 07
То:	PCT
BARON & WARREN	NOTIFICATION OF THE
Attn. Johnstone, Douglas I.	NOTIFICATION OF TRANSMITTAL OF
19 South End, Kensington	THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION
Tanada a tana ana ana ana ana ana ana ana ana	OH THE DECLARATION
UNITED KINGDOM BAHUN & WARDLI	
• RECFIVED	(PCT Rule 44.1)
- 5 JUL 2004	
Tuite KSW   BESM   REC	ata of mailing
ARW ARW ACC	teate of mailing (day/month/year)
Applicant's or agent's file reference	06/07/2004
DJ/38494 COMP. DMRY No.	
00/38494	POR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/GB 03/04903	(dav/month/year)
Applicant	12/11/2003
HONEYWELL INTERNATIONAL, INC.	
	<del></del>
1. X The applicant is hereby notified that the International County	
y the time international Search	Report has been established and is transmitted herewith
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes to amond the statement	The state of the s
The applicant is entitled, if he so wishes, to amend the claims	of the International Application (see Rule 46):
When? The time limit for filing such amendments is normall international Search Report; however, for more detailed.	y 2 months from the date of transmitted of the
	alls, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO	
34, chemin des Colombettes 1211 Geneva 20, Switzerland	
Fascimile No.: (41–22) 740.14.35	
For more detailed instructions, see the notes on the accom-	Donates at a st
<ol> <li>The applicant is hereby notified that no International Search F Article 17(2)(a) to that effect is transmitted herewith.</li> </ol>	Report will be established and that the start or
Article 17(2)(a) to that effect is transmitted herewith.	declaration under
With regard to the protest against payment of (an) additiona	fee(s) under Pulo 40.2. Honorally
I USE DIVIES HORPING With the decision the second	
the protest together with the decision thereon has been to applicant's request to forward the texts of both the protest	ansmitted to the International Bureau together with the
	the designated Offices.
no decision has been made yet on the protest; the application	ant will be some .
the production of the producti	and will be notified as soon as a decision is made.
. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the princip, date in	
Shortly after 18 months from the priority date, the international applie if the applicant wishes to avoid or postpone publication, a notice of priority claim, must reach the International Bureau as provided in F	cation will be published by the International Bureau.
pilotty Cidiff, must reach the International Durant	maidration of the international application or of the
Within 19 months from the priority date, a demand for international p wishes to postpone the entry into the national phase until 30 months	reliminary examination must be filed if the accura-
before all designated Offices which have not been elected in the de priority date or could not be elected because they are not bound by	emand or in a later election within 19 months from the
by are not bound by	Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Chrystalla Louca-Drener

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Form PCT/ISA/220 (July 1998)

### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filling of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

## What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

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# **PCT**

## **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification o	of Transmittal of International Search Report
DJ/38494	ACTION (FOILIFCT/ISA/2)	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 03/04903	12/11/2003	
Applicant		
HONEYWELL INTERNATIONAL,	INC.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
Basis of the report		
<ul> <li>a. With regard to the language, the language in which it was filed, unit</li> </ul>	international search was carried out on the bas ess otherwise indicated under this item.	sis of the International application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this
was carried out on the basis of the	e sequence listing:	ternational application, the international search
	anal application in written form.	_
	mational application in computer readable form this Authority in written form.	1.
	this Authority in computer readble form.	
the statement that the sub international application a	sequently furnished written sequence listing do s filed has been furnished.	pes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form is	identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lace	king (see Box II).	
4. With regard to the <b>title</b> ,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
With regard to the abstract,     the text is approved as su	hmitted by the applicant	
the text has been establis	hed, according to Rule 38.2(b), by this Authority date of mailing of this international search repi	y as It appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	1
x as suggested by the appli	cant.	None of the figures.
because the applicant faile		
because this figure better	characterizes the invention.	

Form PCT/ISA/210 (first sheet) (July 1998)

PCT/GB 03/04903 A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04D29/46 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) FO4D FO2C FO2B FO1D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 099 847 A (CARRIER CORP) 1,6-91 February 1984 (1984-02-01) 14-16 X page 6, line 23 -page 9, line 5; figure 1 17,18, 20-24 page 11, line 13 - line 28; figure 2 Α 19 US 3 362 624 A (ENDRESS JAMES W) 1,9,17 9 January 1968 (1968-01-09) column 3, line 5 - line 35; figure 1 US 3 365 120 A (KURT JASSNIKER) Α 1,5,9, 23 January 1968 (1968-01-23) 13,17, 18,20 column 2, line 4 - line 60; figure 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled \*P\* document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29 June 2004 06/07/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo ni,

Fax: (+31-70) 340-3016

Di Giorgio, F

HING HIGHOR OR	patent ramily	members

PCT/GB 03/04903

					00/04303
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0099847	A	01-02-1984	US AU AU DE DE IN JP JP JP KR	4460310 A 548325 B2 1566583 A 3368095 D1 99847 T1 0099847 A1 158399 A1 1689049 C 3051920 B 59015695 A 8700016 B1	17-07-1984 05-12-1985 05-01-1984 15-01-1987 20-06-1984 01-02-1984 08-11-1986 11-08-1992 08-08-1991 26-01-1984 28-01-1987
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